

Date: Thu, 23 Dec 93 04:30:34 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V93 #141  
To: Ham-Homebrew

Ham-Homebrew Digest                      Thu, 23 Dec 93                      Volume 93 : Issue 141

Today's Topics:

- - television disruptor - - (4 msgs)
  - Heathkit DX-60B Mod?
  - Mini-Circuits MAR-6 amp (4 msgs)

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 21 Dec 93 08:16:27 GMT  
From: claris!szebra!spectrx!dallas@decwrl.dec.com  
Subject: - - television disruptor - -  
To: ham-homebrew@ucsd.edu

quixote@eskimo.com (Looking for Sancho) writes:

>  
> I would be interested in obtaining some device which would  
> disrupt television reception around my apartment. If they  
> are not so complicated, I imagine that with some patience,  
> one could build one, but I do not even know the range of  
> frequencies used by commercial television radio waves.  
>  
> The intended use of this device is to be put with a timer  
> against the wall where my new neighbor has his television set.  
> He comes home around midnight and keeps his television  
> loud until 3 am almost every day. I wonder about the legality  
> of my idea, therefore I would like something with regulated  
> signal strength since I would not like to affect other neighbors.

>  
> Any information about where one can buy these devices or where  
> one can find a simple circuit to make one, (I know very little about  
> radio or electronics), will be greatly appreciated.  
>  
> Thanks,  
> Carlos.

well i rember a long time ago seeing a ad in Popular Sci. for one but it said  
it was ilegal to use it to jam T.V.'s,it was suposed to be used as somthing  
eles can't rember what,if i can find the magazine i'll give you address of the  
company

--  
dallas@spectrx.saigon.com (dallas)  
SPECTROX SYSTEMS +1.408.252.1005 Cupertino, Ca

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Date: 20 Dec 1993 14:43:20 -0700  
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!howland.reston.ans.net!  
sol.ctr.columbia.edu!hamblin.math.byu.edu!news.byu.edu!cwis.isu.edu!cwis.isu.edu!  
not-for-mail@network.ucsd.edu  
Subject: - - television disruptor - -  
To: ham-homebrew@ucsd.edu

You ought to get a VCR tape and record "Fuck You Bob And your Goddamned  
Noisy TV!!!" and modulate it onto his favorite channel.

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Date: 22 Dec 93 12:17:21 -0500  
From: library.ucla.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com!  
MathWorks.Com!noc.near.net!news.tufts.edu!news.hnrc.tufts.edu!  
jerry@network.ucsd.edu  
Subject: - - television disruptor - -  
To: ham-homebrew@ucsd.edu

In article <CIBMDI.MsI@eskimo.com>, quixote@eskimo.com (Looking for Sancho)  
writes:

> against the wall where my new neighbor has his television set.  
> He comes home around midnight and keeps his television  
> loud until 3 am almost every day.

This is tough. I ended up moving once because of a noisy neighbor.  
As others have suggested, speak with him. If he'll work with you, there are

lots of things to try:

moving your bed or his tv  
getting him some carpeting or other things to absorb some of the sound (\*)  
if it is loud because he is listening at the other end of the room, get him  
some speakers to move the sound there (\*)  
put up a sound absorbing wall in one of your apartments (\*)

(\*) offer to cover or share the costs. this is for your benefit, after all.

I would argue against the disruptor as being ineffective. He'll just try to get the tv fixed, will probably succeed, and he'll be mighty upset if he ever figures out what was going on. \*Don't\* do this if he hasn't already proven unreasonable. It'll be easy to work with him if you keep it on a friendly basis. Difficult if you become enemies.

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Date: Mon, 20 Dec 1993 22:37:25 GMT  
From: hearst.acc.Virginia.EDU!murdoch!lambda.itc.Virginia.EDU!jeg7e@uunet.uu.net  
Subject: - - television disruptor - -  
To: ham-homebrew@ucsd.edu

In article <1993Dec20.044940.3260@cmkrnl.com>, <jeh@cmkrnl.com> wrote:  
>In article <CIBMDI.MsI@eskimo.com>, quixote@eskimo.com (Looking for Sancho)  
> writes:  
>> The intended use of this device is to be put with a timer  
>> against the wall where my new neighbor has his television set.  
>> He comes home around midnight and keeps his television  
>> loud until 3 am almost every day. I wonder about the legality  
>> of my idea, therefore I would like something with regulated  
>> signal strength since I would not like to affect other neighbors.

I was raised in foster homes and such, usually with at least 8 other kids. Choosing what to watch on the TV could be a grand political process, and often my interests were not well represented in the choice.

I built (from a kit, I can't remember which manufacturer) a 'television disruptor' which was a small circuit that nicely mounted into a matchbox sized unit with a small wire antenna protruding. It had a thumbwheel tuner. the whole affair was very tiny, easily concealed in the hand or pocket, it used a 9v battery. The kit cost about \$4.95 or something...

I loved this thing. Used strategically it would somehow occur that the only stations that would come in some nights carried programming that was suited to my tastes.

Thanks for provoking a pleasant memory... :)

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Any opinions expressed herein are not necessarily those of The University.

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 \ \ /  Jon Gefaell, Computer Systems Engineer      | Amateur Radio, KD4CQY  
  \ \ /  A UNIX guy doing Netware - ITC/Carruthers  | -Will chmod for Food-  
   \ \ /  The University of Virginia, Charlottesville | Hacker@Virginia.EDU  
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Date: 22 Dec 1993 18:35:18 GMT  
From: library.ucla.edu!europa.eng.gtefsd.com!paladin.american.edu!gatech!  
usenet.ufl.edu!mailer.acns.fsu.edu!geomag!zateslo@network.ucsd.edu  
Subject: Heathkit DX-60B Mod?  
To: ham-homebrew@ucsd.edu

In article <1993Dec17.201816.14925@news.unomaha.edu> ncc2001@cwis.unomaha.edu  
(Michael Fortner) writes:

>I do not think it is worthless to try to convert this piece of equipment.  
>Many newer hams (myself included) can not afford the outrageous prices of  
>new and "newer" used equipment. However, we can afford and often enjoy  
>modifying what we can afford. It is much better to take a piece of working  
>electronics and keep it useful than have it take up space in a landfill.

I think the point was that this \_particular\_ modification (making  
a DX-60 do SSB) was just plain impracticable. The "SSB adaptors"  
made in the late 50s and early 60s cost quite a bit more than  
a basic transmitter like the DX-60. They were also mostly  
phasing-type units, which made them very tricky to set up.  
The DX-60 doesn't have a built-in VFO, and the one most often  
used with it isn't really stable enough for a good SSB signal.  
If you were to try to modify a DX-60 itself for SSB, you'd have  
little left but the final stage, and you'd have pretty much  
destroyed a nice little CW transmitter.

There are lots of old SSB transmitters and transceivers on the used  
market, some at very reasonable prices. It's a better investment to  
buy an old TR-3 or Swan and fix or modify it than to make a DX-60  
into something entirely different than it is.

That said, I sure hope nobody is throwing DX-60s (or any other  
vintage ham gear) into landfills!

Ted Zateslo, W1X0  
zateslo@geomag.gly.fsu.edu

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Date: 22 Dec 93 16:55:55 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!sdd.hp.com!hpscit.sc.hp.com!  
rkarlqu@network.ucsd.edu  
Subject: Mini-Circuits MAR-6 amp  
To: ham-homebrew@ucsd.edu

In article <1993Dec22.000911.9923@ultb.isc.rit.edu>,  
J.D. Cronin <jdc3538@ultb.isc.rit.edu> wrote:

>  
>  
>Have any of you folks tried the Mini-Circuits MAR-6 as a 2-meter (or  
>other ham band) preamp? It has 50 ohm input/outputs, and looks like  
>very few parts are needed. Are they any good? Is there anything  
>special to watch out for?  
>  
>  
>73...Jim  
>N2VNO

This is a poor choice because the noise figure is rather  
high and the 3rd order IMD intercept (which is  
unspecified) is unlikely to be very good either. You  
would do far better with a garden variety VHF dual gate MOSFET,  
although it requires more skill to design the amplifier.

Rick Karlquist N6RK  
rkarlqu@scd.hp.com

-----  
Date: Wed, 22 Dec 1993 00:09:11 GMT  
From: rit!isc-newsserver!jdc3538@cs.rochester.edu  
Subject: Mini-Circuits MAR-6 amp  
To: ham-homebrew@ucsd.edu

Have any of you folks tried the Mini-Circuits MAR-6 as a 2-meter (or  
other ham band) preamp? It has 50 ohm input/outputs, and looks like  
very few parts are needed. Are they any good? Is there anything  
special to watch out for?

73...Jim  
N2VNO

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Date: 22 Dec 93 04:59:41 GMT  
From: ogicse!cs.uoregon.edu!sgiblab!a2i!nntp.crl.com!crl.crl.com!not-for-mail@network.ucsd.edu  
Subject: Mini-Circuits MAR-6 amp  
To: ham-homebrew@ucsd.edu

Glenn Elmore (glenne@sad.hp.com) wrote:

: I believe that the MAR-6 is actually an Avantek part resold by  
: Mini-Circuits. I think that the Avantek specs for the MSA-06 apply or  
: are very close.

This part is indeed manufactured by Avantek: Didn't your employer, HP,  
buy Avantek a while ago?

: It is a broadband part and as such some selectivity is in order if it  
: is to be used in front of a receiver as an additional gain stage.

This is the point I was trying to make in my reply to this thread. The  
low input impedance of these mmic amps generally require special care in  
designing the input match if any selectivity is to be had.

: I've used MAR-3,4,6,7, and 8 parts for a variety of purposes including  
: hamband and TV preamps. With care they can be quite useful.

Indeed, with care. If I remember correctly, the MAR-8 is unique among  
the series in that it is not inherently stable. Care must be taken that  
terminations both in the band of operation and outside it will not make  
the device "take off".

Don Miller      dmiller@crl.com

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Date: Wed, 22 Dec 1993 18:38:37 GMT  
From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!  
vixen.cso.uiuc.edu!sdd.hp.com!col.hp.com!srngenprp!glenne@network.ucsd.edu  
Subject: Mini-Circuits MAR-6 amp  
To: ham-homebrew@ucsd.edu

J.D. Cronin (jdc3538@ulthb.isc.rit.edu) wrote:

: Have any of you folks tried the Mini-Circuits MAR-6 as a 2-meter (or  
: other ham band) preamp? It has 50 ohm input/outputs, and looks like  
: very few parts are needed. Are they any good? Is there anything  
: special to watch out for?

I believe that the MAR-6 is actually an Avantek part resold by Mini-Circuits. I think that the Avantek specs for the MSA-06 apply or are very close.

In any case, Mini-Circuits \*does\* specify distortion performance of the MAR-6. They indicate that TOI (3rd order intercept) as +15 dBm at 16 mA bias. The parts really are fairly decent WRT TOI but perhaps not as good as one might expect for SHI performance(which I believe is unspecified).

It is a broadband part and as such some selectivity is in order if it is to be used in front of a receiver as an additional gain stage. I find the noise figure (specified to be under 3 dB) to be more than adequate for amateur terrestrial use. Since antenna temperature is at least 290 degrees K and considering the not insignificant QRN present in most amateur environments, I believe that the difference in C/N on received amateur signals to be completely insignificant when compared with the lowest noise preamps. GaAs FET preamps \*might\* have better distortion performance though. I doubt that dual gate FETs would be better.

One does need to be careful not to put unnecessary gain ahead of a receiver and to filter appropriately though. Otherwise strong signal performance may be so comprimised as to negate any advantage that might otherwise have been obtained in sensitivity increase. The amplifiers need very little or no matching through the VHF region but filtering may be another matter and could increase the part count.

I've used MAR-3,4,6,7, and 8 parts for a variety of purposes including hamband and TV preamps. With care they can be quite useful.

Glenn Elmore n6gn

ax.25 n6gn@wx3k.#nocal.ca.usa.na  
amateur IP: glenn@SantaRosa.ampr.org  
Internet: glenne@sr.hp.com

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Date: Mon, 20 Dec 1993 22:41:40 GMT  
From: hearst.acc.Virginia.EDU!murdoch!lambda.itc.Virginia.EDU!jeg7e@uunet.uu.net  
To: ham-homebrew@ucsd.edu

References <CIBMDI.MsI@eskimo.com>, <1993Dec20.044940.3260@cmkrnl.com>,  
<2f569o\$qr6@cwis.isu.edu>.E

Subject : Re: - - television disruptor - -

In article <2f569o\$qr6@cwis.isu.edu>,  
CLARK\_SEAN\_M <clarsean@cwis.isu.edu> wrote:  
>You ought to get a VCR tape and record "Fuck You Bob And your Goddamned  
>Noisy TV!!!" and modulate it onto his favorite channel.

Get a social grace...

The poor fellow probably doesn't get home until around midnight and just  
wants to unwind with the cathode ray brain cleaner....

He probably really has no idea that he is disturbing you. Consider a pleasant  
hello next time you see him going in or out or just dropping by to introduce  
yourself as a neighbour. That would be a good time to say something like "Hey,  
when you come home at midnight and watch TV it keeps me awake because your TV  
and my bed are right across a wall. I was hoping maybe you could find a way  
to help deal with this problem, maybe turn the TV down, or even move it to the  
other side of the room?"

Might even make a friend, go figure....

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Any opinions expressed herein are not necessarily those of The University.

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 \ \ /  Jon Gefaell, Computer Systems Engineer      | Amateur Radio, KD4CQY  
  \ \ /  A UNIX guy doing Netware - ITC/Carruthers  | -Will chmod for Food-  
   \ \ /  The University of Virginia, Charlottesville | Hacker@Virginia.EDU  
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Date: Wed, 22 Dec 1993 05:40:58 GMT  
From: usc.edu!howland.reston.ans.net!europa.eng.gtefsd.com!emory!kd4nc!  
n4tii@network.ucsd.edu  
To: ham-homebrew@ucsd.edu

References <CIBMDI.MsI@eskimo.com>, <5HFwec7w165w@spectrx.saigon.com>,  
<CIDv9M.Hq@barclays.co.uk>ti  
Subject : Re: - - television disruptor - -

Iain.Laskey@barclays.co.uk writes:

>In article <5HFwec7w165w@spectrx.saigon.com>, dallas@spectrx.saigon.com (dallas)  
writes:  
>|> quixote@eskimo.com (Looking for Sancho) writes:

Carlos....I'll spare you the legalities and all the ubbub about telling him



to tun down hiw TV.... go get your a Popular Science magazine and check the back... there is some place that sells the very thing you want in kit form. Yes...this would be illegal to INTENTIONALLY disrupt his tv....but you never should have told the net that was your intention.... either way, go get you a Pop Science and check the classifieds....have fun! Don't get beat up by your neighbor when he catches you!!! (grin)

John

```
>|> > disrupt television reception around my apartment. If they
>|> > are not so complicated, I imagine that with some patience,
>|> > one could build one, but I do not even know the range of
>|> > frequencies used by commercial television radio waves.
>Why not ask him to turn it down? If he's not the sort of person who listens to
>reasonable requests, do you not have local noise-pollution laws? If so you caould
>report him for anti-social behaviour/being too loud.
```

> - -

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>+-----+
> | Iain R Laskey | Atari Falcon - The best upgrade I ever made! |
> |               | Laserdisc & Pro-Logic - The only way to watch movies |
> |               | Replies to ilaskey@cix.compulink.co.uk |
```

IC

C>+-----+

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Date: 23 Dec 93 00:43:34 GMT

From: ogicse!cs.uoregon.edu!usenet.ee.pdx.edu!psu\_075.chem.pdx.edu!

caeser.geog.pdx.edu!jay@network.ucsd.edu

To: ham-homebrew@ucsd.edu

References &lt;5HFwec7w165w@spectrx.saigon.com&gt;, &lt;CIDv9M.Hq@barclays.co.uk&gt;,

<1993Dec21.143219.4967@mnemosyne.cs.du.edu>

Subject : Re: - - television disruptor - -

A simple DC circuit can cause interference, like this:

just run the wire up and down the file and ALL radio/TV whithin a short distance will be disrupted..

This is all theoretical of course. It is illegal to disrupt any FCC licensed programing. TV is such a broadcast.

p.s. hair dryers and popcorn (hot air) popers also are very electricly noisy

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=====
* Jay D. Allen - METNET at Portland State University      *
* Department of Geography AND The Center For Science Education *
* jay@caeser.geog.pdx.edu                                *
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End of Ham-Homebrew Digest V93 #141

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